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L7: Entry 1 of 3   File: EPAB   Aug 18, 1995

PUB-NO: FR002716319A1
DOCUMENT-IDENTIFIER: FR 2716319 A1
TITLE: Network transmission confidentiality method for mobile telephone

PUBN-DATE: August 18, 1995

INVENTOR-INFORMATION:
NAME   COUNTRY
PATRICE, HOEL

ASSIGNEE-INFORMATION:
NAME   COUNTRY
SAGEM   FR

APPL-NO: FR09401680
APPL-DATE: February 15, 1994

PRIORITY-DATA: FR09401680A (February 15, 1994)

INT-CL (IPC): H04L 9/32; H04B 7/26
EUR-CL (EPC): H04L009/32; H04Q007/38

ABSTRACT:

The method involves a unique data support device for each user and two
authentication codes. The first is for access to the network and the other is
for access to a service. The authentication codes must be verified before
access is permitted. The network access code is numerically deducted from the
service access code and is verified by comparison with the initial service
access code. The system includes a service access module (33) and a network
access module (4). The modules perform code deduction and access control
operations.

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L46: Entry 4 of 6   File: EPAB   Jan 8, 1998

PUB-NO: WO009800956A2
DOCUMENT-IDENTIFIER: WO 9800956 A2
TITLE: SYSTEM AND METHOD FOR PREVENTING CELLULAR FRAUD

PUBN-DATE: January 8, 1998

INVENTOR-INFORMATION:
NAME   COUNTRY
JORDAN, DAVID P
REED, ELAINE
MCMAHON, KEVIN

ASSIGNEE-INFORMATION:
NAME   COUNTRY
MCI COMMUNICATIONS CORP   US

APPL-NO: US09711316
APPL-DATE: June 30, 1997

PRIORITY-DATA: US67463796A (June 28, 1996)

INT-CL (IPC): H04M 0/
EUR-CL (EPC): H04M003/38; H04Q007/38

ABSTRACT:

A system and method for authenticating a telephone to a telecommunications
network prior to connecting a telephone call. The present invention programs a
cellular telephone with a telephone identifier. When a caller uses the cellular
telephone to make a call, the telecommunications network automatically routes
the call to an authentication platform. There is one authentication platform in
the telecommunications network for receiving all cellular calls. The cellular
telephone sends a call origination to the authentication platform including an
electronic serial number (ESN) and a mobile identification number (MIN). The
authentication platform returns a random challenge to the cellular telephone.
The cellular telephone generates a response by encrypting the random challenge
with its ESN, MIN and a unique telephone identifier and sends the response to
the authentication platform. The authentication platform generates an
anticipated response by encrypting the random challenge with the ESN and MIN
provided in the originating call and with a telephone identifier retrieved from
a local database. The authentication platform compares the response from the
cellular telephone with its anticipated response to authenticate the call. If
the response and the anticipated response match, the authentication platform
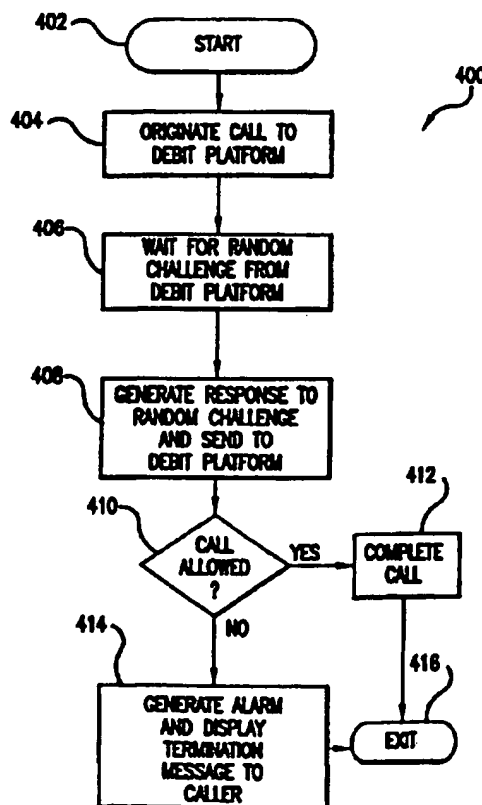allows the call to complete; otherwise, the authentication platform terminates
the call.

(54) Title: SYSTEM AND METHOD FOR PREVENTING CELLULAR FRAUD

(57) Abstract

A system and method for authenticating a telephone to a telecommunications network prior to connecting a telephone call. The present invention programs a cellular telephone with a telephone identifier. When a caller uses the cellular telephone to make a call, the telecommunications network automatically routes the call to an authentication platform. There is one authentication platform in the telecommunications network for receiving all cellular calls. The cellular telephone sends a call origination to the authentication platform including an electronic serial number (ESN) and a mobile identification number (MIN). The authentication platform returns a random challenge to the cellular telephone. The cellular telephone generates a response by encrypting the random challenge with its ESN, MIN and a unique telephone identifier and sends the response to the authentication platform. The authentication platform generates an anticipated response by encrypting the random challenge with the ESN and MIN provided in the originating call and with a telephone identifier retrieved from a local database. The authentication platform compares the response from the cellular telephone with its anticipated response to authenticate the call. If the response and the anticipated response match, the authentication platform allows the call to complete; otherwise, the authentication platform terminates the call.

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L38: Entry 44 of 55   File: USPT   Mar 21, 1989

US-PAT-NO: 4814972
DOCUMENT-IDENTIFIER: US 4814972 A
TITLE: Method and videotex apparatus for fast access of remotely located information

DATE-ISSUED: March 21, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Winter; Peter M.	Elk Grove Village	IL		
Ray; Thomas R.	Chicago	IL		
Burkhardt; Mary E.	Hoffman Estates	IL		

US-CL-CURRENT: 709/227; 348/468, 379/93.02, 379/93.12, 379/93.18

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(71) Applicant *(for all designated States except US)*: STARVOX, INC. [US/US]; 2880 Zanker Road, San Jose, CA 94134 (US).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: CHANG, Gordon, K. [US/US]; 2954 Heidi Drive, San Jose, CA 95132 (US). HARBISON, Robert, W. [US/US]; 118 Bonita Street, Sausalito, CA 94965 (US). BARRY, Richard, B. [US/US]; 305 South Gordon Way, Los Altos, CA 94022 (US). LO, Ming, C. [US/US]; 3331 Country Leaf Court, San Jose, CA 95132 (US). RAAB, Stephen, R. [US/US]; 738 Marin Drive, Mill Valley, CA 94941 (US).

(74) Agents: WALKER, William, B. et al.; Enterprise Law Group, Inc., Suite 280, 4400 Bohannon Drive, Menlo Park, CA 94025 (US).

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(54) Title: APPARATUS AND METHOD FOR INTEGRATED VOICE GATEWAY

(57) Abstract

An integrated voice gateway system for use within a company which can route a voice telephone call between parties at two different locations over an IP network or over the PSTN. The system can route a voice telephone call from a first location within the system to a second location within the system via the IP network, and then from the second location to a third location via the PSTN. The integrated voice gateway system includes a gateway server which serves as an intranet/Internet telephony gateway. The gateway server routes intra-company voice or facsimile (fax) calls, over the company's intranet or the public Internet. The gateway server provides an alternate voice network to the PSTN for a company. This alternate network is provided at a much lower cost. The gateway server is a combination of hardware and software components which reside on a PC server platform. The gateway server is coupled to a customer premise telephone system, i.e. a PBX via a T1 or E1 trunk for larger systems, or an analog trunk for smaller systems. The gateway server is coupled to the company's intranet via industry standard connections. The gateway servers in a multi-site company are coupled together via the company's intranet or wide area network (WAN) into a gateway network. The gateway server uses PBX call status links to provide many unique and useful features which are otherwise unavailable. The gateway server uses T1 inband ANI, PRI, QSIG or industry standard CTI applications programming interfaces (API) and works with any PBX which supports any of these call status links. The gateway server is equipped with a database of user and gateway objects and attributes, and provides many unique features including caller's name based on caller phone number, address translation, gateway network routing information, user authentication, etc. This database can be integrated with industry standard enterprise directory services systems including any directory which supports the Lightweight Directory Access Protocol (X.500) (LDAP) interface.